REFERENCES

Auto/Steel Partnership. 1995. Tailor welded blank design and manufacturing manual. Technical Report.

Bouaifi, B. and Sommer, D. 1997. Influence of joining techniques on the microstructure and formability of steel sheet. *Welding Research Abroad*. **42**(3): 37-40.

Brown, K. R., Venie, M. S. and Woods, R. A. 1995. The increasing use of aluminum in automotive applications. *Journal of Metals*. **47**(7): 20-23.

Clapham, L., Abdullah, K., Jeswiet, J.J., Wild, P.M. and Rogge, R. 2004. Neutron diffraction residual stress mapping in same gauge and differential gauge tailor welded blanks. *Journal of Materials Processing Technology*. **148**(2): 177-185.

Das, S. 2000. Aluminum tailor welded blanks. *Advanced Materials and Processing*. **157**(3): 41-2.

Davies, R.W., Vetrano, J.S., Smith, M.T. and Pitman, S.G. 2002. Mechanical properties of aluminum tailor welded blanks at superplastic temperatures. *Journal of Materials Processing Technology*. **128**(1-3): 38-47.

Garmo, P.P.D. 1974. *Material and process in manufacturing*, (4th ed.). New York: Macmillan Publishing Cooperation Co.

Kopeliovich, D. 2012. Physical properties of metals (online). http://www.substech.com (10 December 2012).

Grande, B., Wærstad, O. and Runeborg, P. 2012. Weld setup, variable frequency and heat affected zones in high frequency tube and pipe welding. Norway: July.

Heo, Y.M., Wang, S.H., Kim, H.Y. and Seo, D.G. 2001. The effect of the drawbead dimensions on the weld-line movements in the deep drawing of tailor welded blanks. *Journal Material Process Technology*. **113**: 686-691.

Huntington, C.A. and Eagar, T.W. 1982. Laser welding of Aluminum and Aluminum Alloys. *Welding Journal*. **62**(4): 105s.

Incropera, F.P and DeWitt, D.P. 1990. *Fundamentals of heat and mass transfer*. (3rd ed.). John Wiley & Sons, Inc.

Karagiannis, S. and Chryssolouris, G. 2003. Nd:YAG laser welding: an overview. Proc. SPIE 5131. *Third GR-I International Conference on New Laser Technologies and Applications*. United States: 16 February.

Kinsey, B., Liu, Z. and Cao, J. 2000. A novel forming technology for tailor welded blanks. *Journal of Materials Processing Technology*. **99**: 145-153.

KM (Key to Metals). 2009. Laser Welding of Aluminum and Aluminum Alloys: Part One (online). http://www.keytometals.com/page.aspx?ID=CheckArticle&site=ktn&NM=214 (8 December 2012).

Lazaridis, G. 2010. How Thermocouple works (online). http://www.pcbheaven.com (5 December 2012).

Li, J. 2010. The effect of weld design on the formability of laser tailor welded blanks. Master Thesis. University of Waterloo, Canada.

Mallieswaran, K., Siranjeevi, L. and Premkumar, R. 2012. Study of weld-line movements for the deep drawing process of tailor welded blanks. *Journal of Advanced Technology in Engineering*. **1**(1): 76-80.

Meinders, V.T., Berg, A.V.D. and Huétink, J. 2000. Deep drawing simulations of tailored blanks and experimental verification. *Journal of Materials Processing Technology*. **103**(1): 65-73.

Migliore, L. 1998. The principles of laser welding. Ind. Laser Rev. **13**(7): 17-21.

Mortimer, C.E. 1975. *Chemistry: A conceptual approach*. (3rd ed.). New York: D. Van Nostrad Company.

NDT Resource Center. 2012. Material and process (online). http://www.ndt-ed.org/EducationResources/CommunityCollege/Materials/cc_mat_index.htm (5 December 2012).

Padmanabhan, R., Oliveira, M.C. and Menezes, L.F. 2006. Deep drawing of aluminum-steel tailor-welded blanks. *Journal of Materials and Design*. **29**(1): 154-160.

Pallet, R.J. and Lark, R.J. 2001. The use of tailored blanks in the manufacture of construction components. *Journal of Materials Processing Technology*. **117** (1-2): 249-254.

Panda, S.K., Kumar, D.R., Kumar, H. and Nath, A.K. 2007. Characterization of tensile properties of tailor welded IF steel sheets and their formability in stretch forming. *Journal of Materials Processing Technology*. **183**(2-3): 321-332.

Qi, Y. 2012. The new technology in the automotive industry by using tailor welded blanks (online). http://www.baosteel.com/english_n/e07technical_n/21be.pdf (28 November 2012).

Rojek, J., Hyrcza-Michalska, M., Bokota, A. and Piekarsk, W. 2012. Determination of mechanical properties of the weld zone in tailor-welded blanks. *Archives of Civil and Mechanical Engineering*. **12**(2): 156-162.

Rooks, B. 2001. Tailor-welded blanks bring multiple benefits to car design. *Assembly Automation*. **21**(4): 323-328.

Saunders, F.I. and Wagoner, R.H. 1995. The use of tailor-welded blanks in automotive applications. The Ohio State University, USA.

Saunders, F.I. and Wagoner, R.H. 1996. Forming of tailor-welded blanks. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*. **27A**(9): 2605-2616.

Scervini, M. 2009. Thermocouples: The operating principle. *Thermoelectric Materials for Thermocouples*. University of Cambridge, UK.

Schuöcker, D. 1998. Handbook of the EuroLaser Academy Vol.2. London: Chapman & Hall.

Siemens. 2013a. CAE/Computer-Aided Engineering (online). http://www.plm.automation.siemens.com/en_us/plm/cae.shtml (4 January 2013).

Siemens. 2013b. FEA/Finite Element Analysis (online). http://www.plm.automation.siemens.com/en_us/plm/fea.shtml (4 January 2013).

Smith, M. 2012. BoronExtrication.com. B-Pillar 'Tailor Rolled' to 8 Different Thicknesses (online). http://boronextrication.com/2012/11/b-pillar-tailor-rolled-to-8-different-thicknesses/ (10 May 2013).

Stoebe, T.G. 2008. Welding Introduction. Slide. University of Washington, USA.

Thasanaraphan, P. 2012. A study on the welding characteristics of tailor welded blank metal sheets using gtaw and laser welding. *Theses and Dissertations*. **1097**.

TTB (Thyssenkrupp Tailored Blanks). 2012. Product range (online). http://www.thyssenkrupptailoredblanks.it/ (6 December 2012).

Weman, K. 2003. Welding processes handbook. New York: CRC Press LLC.